

# **STEM CELL SCREENING AND TRANSPLANTATION THERAPY FOR HIV INFECTION**

## **ABSTRACT OF THE DISCLOSURE**

This invention provides methods for preventing or treating any disease arising from HIV infection, including AIDS and AIDS-related complex (ARC). The method comprises screening a plurality of donors to identify stem cells with a beneficial gene or genes and then transplanting the therapeutic stem cells into a patient. In preferred embodiments, the beneficial gene encodes a polymorphism that renders cells refractory to HIV infection. The polymorphism may be for a gene that encodes a ligand of a receptor for HIV entry, a product of the HLA complex, or a receptor for HIV entry.

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